

Contact

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Top Skills

Project Management
Research and Development (R&D)
Catalysis

Languages

English (Full Professional)
Spanish (Native or Bilingual)
Dutch (Elementary)
French (Full Professional)
Portuguese (Limited Working)

Honors-Awards

Open Competition Domain Science -
XS Package
S.I. Patiño Foundation Scholarship

Publications

Truncated Cinchona alkaloids
as catalysts in enantioselective
monobenzoylation of meso-1,2-diols

Nickel-catalyzed diastereoselective
alkyl-alkyl Kumada coupling
reactions

DEGRADATION OF SYNTHETIC
ORGANIC DYES IN SOLUTION BY
FERRATE – HYPOCHLORITE OR
CALCIUM HYPOCHLORITE

ELECTROCHEMICAL OXIDATION
OF SYNTHETIC ORGANIC
DYES BY FERRATE (VI), USING
COMMERCIAL STEEL WOOL
ELECTRODES

Synthesis, Reactivity, and Bonding
Analysis of a Tetracoordinated
Nickel Carbene

Pablo M. Pérez García

Chemist, Ph.D. | Homogeneous catalysis | Organic Synthesis |
Analytical Chemistry
Cochabamba, Bolivia

Summary

Enthusiastic and creative chemist. I have expertise in designing and applying homogeneous catalysts supported by detailed mechanistic studies. Excellent skills in organic synthesis and analytical chemistry. Proven track record of excellent work performance within multicultural and cross-functional teams in Europe and South America.

Experience

Universidad Privada Boliviana - Fundación Educativa
Research Associate and Lecturer
April 2024 - Present (8 months)
Cochabamba, Bolivia

Utrecht University

Researcher
August 2021 - March 2023 (1 year 8 months)
Utrecht, Netherlands

Drafted and authored a successful research proposal, acquiring a 50,000 € grant from the Dutch Research Council.

Designed, synthesized, and scrutinized the reactivity of innovative nickel complexes to assess their viability as catalysts for olefin metathesis, focusing on enhancing the sustainability of biodiesel production.

Offered technical mentoring to over 10 Ph.D., master's, and undergraduate students.

Utrecht University

Researcher
January 2018 - January 2021 (3 years 1 month)
Utrecht Area, Netherlands

Designed, synthesized, and scrutinized the reactivity of innovative nickel complexes for a complete study of the cross-coupling catalytic cycle's elementary steps (oxidative addition and reductive elimination).

Assessed catalysts performance through rigorous mechanistic studies, encompassing kinetic analysis, structural reactivity assessments, and the identification of pre-equilibrium and competing reactions.

Offered technical mentoring to over 10 Ph.D., master's, and undergraduate students.

Led the development of a collaboration project in computational chemistry with external partners.

Universidad Privada Boliviana - Fundación Educativa

Research Associate and Lecturer

March 2016 - August 2017 (1 year 6 months)

Cochabamba - Bolivia

Designed, implemented, and validated an electrochemical oxidation process within a small batch reactor to treat wastewater containing industrial synthetic dyes, substantially reducing more than 90% of the chemical oxygen demand.

Developed, edited, and delivered instructional content for undergraduate engineering courses (20 classroom hours/week).

Instructed and evaluated more than 200 students (teaching performance evaluated over 90%).

EPFL (École polytechnique fédérale de Lausanne)

Research and Teaching Assistant

March 2011 - August 2015 (4 years 6 months)

Lausanne Area, Switzerland

Optimized homogeneous cross-coupling catalysts via rational structure modification.

Performed the route scouting for the multi-step synthesis of various organic (both achiral and chiral) and organometallic compounds, ensuring quality control through different instrumental analytical techniques.

Trained and lead a team of 5 members formed by master students and organic chemistry technicians.

Coordinated the complete purchasing process and managed the inventory of scientific equipment (e.g., automated liquid chromatography, vacuum pumps, etc.).

The American International School of Bolivia

Science Teacher

July 2009 - December 2010 (1 year 6 months)

Cochabamba - Bolivia

Instructed 9th and 10th grade students in Chemistry and Physics, preparing them for the International Baccalaureate diploma program (10 classroom hours/week, groups up to 20 students).

Universidad Catolica Boliviana San Pablo Regional Cochabamba
Lecturer and Project Supervisor

2006 - 2010 (4 years)

Cochabamba - Bolivia

Developed, edited, and delivered instructional content for undergraduate engineering courses (10 classroom hours/week).

Designed experimental protocols and provided instructional supervision for laboratory practical sessions within the engineering undergraduate curriculum (10 classroom hours/week, groups of up to 20 students).

Supervised five environmental engineering projects in wastewater treatment, bioindication, and inventory of atmospheric emissions. Coordinated the technical, budgeting, and legislative aspects of the projects.

Université de Genève

Master Thesis

October 2005 - March 2006 (6 months)

Geneva Area, Switzerland

Improved the synthesis of a quinine derived organic catalyst and screened its activity for enantioselective acylations.

Education

Ecole polytechnique fédérale de Lausanne

Doctor of Philosophy (PhD), Chemistry and Chemical
Engineering · (2011 - 2015)

Universidad Mayor de San Simon

Certificate in Competency-based College
Education , Pedagogy · (2016 - 2016)

Universitat Politècnica de Catalunya

Postgraduate certificate in Environmental Management, Environmental/
Environmental Health Engineering · (2011 - 2012)

Ecole polytechnique fédérale de Lausanne

Additional Semester, Chemical Engineering · (2008 - 2008)

University of Geneva

BSc. and MSc., Chemistry · (2001 - 2006)